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[1. SB122-006: Ultra-Bright Diode Laser Emitters for Pumping High-Power Fiber Amplifiers](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Demonstrate a wavelength-stabilized diode laser system for pumping high-power fiber laser amplifiers consisting of diode laser emitters that are at least ten times brighter than conventional broad-stripe emitters. DESCRIPTION: High average and peak power fiber lasers and amplifiers offer an attractive combination of high efficiency, near diffraction-limited beam quality, low phase no ...

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[2. SB122-007: Foliage Propagation Model Development to Support New Communications Concepts](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop detailed foliage propagation models applicable to multiple environments that will support creation and analysis of new communications concepts that greatly exceed the operational performance of current systems in these environments. DESCRIPTION: The need for propagation models that extend beyond free space and urban environments into foliage-rich environments is well-known. T ...

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[3. SB122-008: High Amperage Large-scale Electrical Energy Storage](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Demonstrate megawatt (MW) scale electrical energy storage at high charge and discharge rates, high cycle life, and high energy density. DESCRIPTION: Electrical power is transient in nature and effective storage of megawatt scale power is a critical technology to enable forward operating base (FOB) level power management. Currently available batteries are not effective solutions with ...

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[4. SB122-009: Human-centric Coalition Space Situational Awareness](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Demonstrate a cognitive-centric User-Defined Operational Picture (UDOP) capability that allows multi-national teams to maintain a common understanding of the space situation. DESCRIPTION: This effort will apply cognitive science technology to develop human-system interfaces for a multi-national space operations center with a focus on Intelligence, Surveillance and Reconnaissance (I ...

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[5. SB122-010: Space Signatures for Rapid Unambiguous Identification of Satellites](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Define and demonstrate approaches to establish and maintain rapid and reliable positive object identification of individual satellites in orbit through sparse but regular data collection. DESCRIPTION: Current methodologies supporting the maintenance of the satellite catalog based upon information derived from the Space Surveillance Network are inadequate to enable a proactive approach ...

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[6. A11-119: High Rate High Energy Storage Devices](#)

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Ground/Sea Vehicles, Electronics ACQUISITION PROGRAM: PEO Ground Combat Systems

SBIR Department of Defense Army Navy Defense Advanced Research Projects Agency Office of the Secretary of Defense

7. A11-120: Clean Electromagnetic Environment (EME) Generation

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Sensors, ElectronicsOBJECTIVE: The contractor shall develop a methodology to greatly reduce the occurrence or magnitude of intermodulation products in an RF environment generation system.

SBIR Department of DefenseArmyNavyDefense Advanced Research Projects AgencyOffice of the Secretary of Defense

8. A11-121: Body Wearable Radio Direction Finding (DF) Antenna

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: ElectronicsACQUISITION PROGRAM: PEO Intelligence, Electronic Warfare and SensorsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section 3.5.b.(7) of the solicitation.

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9. A11-122: Therapy for Secondary Lymphedema

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: BiomedicalACQUISITION PROGRAM: Office of the Principal Assistant for AcquisitionOBJECTIVE: Develop an innovative, curative treatment for secondary lymphedema that will restore the function of the lymphatic vessel system.

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10. A11-123: Maintenance of Tissue Metabolism for at Least 3 Hours between 20-28oC with an Asanguinous Fluid

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: BiomedicalACQUISITION PROGRAM: Office of the Principal Assistant for AcquisitionOBJECTIVE: To determine if fluids such as transplantation solutions or tissue culture medium have potential as resuscitation fluids with the goal of better preservation of physiological function in the traumatically injured patient in an austere environment as compared to the currently used saline or Hextend®.

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